

CLAIMS

What is claimed is:

- 1 1. A technoscope for examining a surface in a confined space, said
2 technoscope comprising:
3 a shank having a longitudinal axis and a cross section;
4 a pivotable arm which is pivotably mounted to said shank, said pivotable
5 arm being pivotable from a first position, in which the arm extends in the direction of
6 said longitudinal axis, to a second position, in which the arm extends transversely to
7 said longitudinal axis; and
8 a working device arranged on said said pivotable arm.

1 2. A technoscope as in claim 1 wherein said arm and said working
2 device can be arranged completely within the cross section of the shank.

1 3. A technoscope as in claim 1 wherein said arm has a proximal end
2 which is mounted to said shank and a distal end to which the working device is
3 attached.

1 4. A technoscope as in claim 1 wherein said working device is a
2 roughness measuring apparatus.

1 5. A technoscope as in claim 1 wherein said working device is
2 pivotably attached to the arm at a pivot axis.

1 6. A technoscope as in claim 5 wherein said working device is
2 pivotable relative to said shank in a plane, said pivot axis extending normally of said
3 plane.

1 7. A technoscope as in claim 5 wherein said working device has a
2 center of gravity spaced from said pivot axis.

1 8. A technoscope as in claim 5 wherein said working device has a
2 longitudinal axis which is parallal to the longitudinal axis of the shank when the arm is in
3 the first position.

1 9. A technoscope as in claim 5 wherein said working device has a pair
2 of opposed ends, said pivot axis being arranged between said ends.

1 10. A technoscope as in claim 1 further comprising an actuation rod
2 received in said shank for pivoting said arm relative to said shank.

1 11. A technoscope as in claim 10 further comprising an adjustment
2 wheel for moving said actuation rod axially.

1 12. A technoscope as in claim 1 further comprising optics received in
2 said shank.

1 13. A technoscope as in claim 1 further comprising a guide sleeve
2 which can be fixed in an opening of a space to be examined, said shank being
3 insertable into said guide sleeve.

1 14. A technoscope as in claim 13 wherein said guide sleeve has an
2 external thread.

1 15. A technoscope as in claim 13 wherein said shank can be held in
2 said guide sleeve so that it is displaceable at least one of longitudinally and rotatably
3 with respect to said longitudinal axis.

1 16. A technoscope as in claim 15 further comprising a gauge for
2 reading at least one of penetration depth and angular position of the shank.

1 17. A technoscope as in claim 1 wherein said arm is flexible.

1 18. A technoscope as in claim 18 further comprising an additional
2 shank which can be received through said shank, said additional shank being flexible.

1 19. A technoscope as in claim 1 wherein said working device is a
2 measuring device.

1 20 A technoscope as in claim 1 wherein said working device is a
2 machine tool.